EG&G ER Program Rocky Flats Plant

(02/08/90)

A-OU01-000069

## ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Bat	ch No. 8908S036	<u>:</u>	Site _	Area 2 - 881	Hillside	
Lat	oratory Roy F. Weston-Stockton	·	No. of	Samples/Ma	trix <u>6/Wate</u>	r
SO'	W # <u>7/87</u>	<u> </u>	Review	wer Org. <u>Te</u>	chLaw, Inc.	
	nple Numbers <u>SW070005 (total), SW</u> 070005D (soluble), SW070005FB (so		otal), SW070	005FB (total)	, SW070005 (	soluble),
		Data Assess	ment Summa	ary		
		ICP	AA	Hg	CN	Comments
1.	Holding Times	_ <u>v</u>	<u>v</u>	<u>v</u>	v	
2.	Calibrations	A	<u>v</u>	<u>v</u>		Action Items 1-8
3.	Blanks	A	A	<u>v</u>		Action Items 9-19
4.	ICP Interference Check Sample	<u>v</u>	N/A	N/A	N/A	
5.	Lab Control Sample Results		<u></u>	<u>v</u>		
6.	<b>Duplicate Sample Results</b>	v	v			
7.	Matrix Spike Sample Results	v	A	<u>v</u>	v	Action Items 20-22
8.	Method of Standard Addition		<u>v</u>	N/A	N/A	
9.	Serial Dilution	v	N/A	N/A	N/A_	
10.	Sample Verification	<u>v</u>	V	<u></u>	v	
11.	Other QC	_ <u>v</u>	<u>V</u>	<u>v</u>	v	D 11
12.	Overall Assessment	A	A	v	v	Data valid, or acceptable with qualifications
	<ul> <li>V = Data had no problems.</li> <li>A = Data acceptable but qualified due to problems.</li> <li>R = Data rejected.</li> </ul>				N/A = Not appli	icable.
	X = Problems, but do not affect data.					
	a Quality: Data contained in this batch we				· .	
<u>qual</u>	ified data may be used provided that individu	al values impa	cted by the "Acti	on Items" listed	l below are appro	priately flagged.
Ref	er to attached Results Summary Tables).			<del></del>	ADMIN	RECORD
	"REVIEWED FOR CLA By R. B. Hoffn	17.5	REVIEWED F	OR CLASSIFICAT	ION/UCNI	8s036/cg03j

Action Items: 1) All non-detect Lithium aqueous values are estimated and undetected (UI) because CRDL
%Recovery criteria was not met.
2) All non-detect Molybdenum aqueous values are estimated and undetected (UJ) because CRDL %Recovery
criteria was not met.
3) All non-detect Tin aqueous values are estimated and undetected (UJ) because CRDL %Recovery criteria
was not met.
4) All non-detect Strontium aqueous values are estimated and undetected (UJ) because CRDL %Recovery
criteria was not met.
5) All non-detect Cadmium aqueous values are estimated and undetected (UJ) because CRDL %Recovery
criteria was not met.
6) All non-detect Cobalt aqueous values are estimated and undetected (UJ) because CRDL %Recovery criteria
was not met.
7) All non-detect Silver aqueous values except SW070005FB (total) are estimated and undetected (UJ)
because CRDL %Recovery criteria was not met.
8) The Selenium aqueous values for SW070005 (total and soluble) and SW070005FB (total) are rejected (R)
because negative bias was indicated in the blanks.
9) The Selenium aqueous value for SW070005D (total) is estimated and undetected (UJ) because Selenium
values >IDL were found in the blanks.
10) All Antimony aqueous values are rejected (R) because negative bias was indicated in the blanks.
11) The Copper and Potassium aqueous values for SW070005 (total and soluble) and SW070005D (total and
soluble) are estimated and undetected (UI) because analyte values >IDL were found in the blanks.
12) The Sodium aqueous values for SW070005FB (total and soluble) are estimated and undetected (UJ)
because Sodium values >IDL were found in the blanks.
13) The Chromium aqueous values for SW070005FB (total) and SW070005D (soluble) are rejected (R)
because negative bias was indicated in the blanks.
14) The Chromium aqueous values for SW070005D (total) and SW070005FB (soluble) are estimated and
undetected (UJ) because Chromium values >IDL were found in the blanks.

Action Items: (cont) 15) The Iron aqueous values for SW070005 (soluble), SW070005D (soluble), and
SW070005FB (total and soluble) are estimated and undetected (UI) because Iron values >IDL were found in the
blanks.
16) The Silver aqueous value for SW070005FB (total) is estimated and undetected (UJ) because Silver values
>IDL were found in the blanks.
17) The Zinc aqueous values for SW070005 (soluble), SW070005D (soluble), and SW070005FB (total and
soluble) are estimated and undetected (UJ) because Zinc values >IDL were found in the blanks.
18) The Zinc aqueous values for SW070005 (total) and SW070005D (total) are estimated (J) because negative
bias was indicated in the blanks.
19) The Thallium value for SW070005D (soluble) is estimated and undetected (UJ) because the post-digestion
matrix spike %Recovery criteria were not met.
20) The non-detect Selenium aqueous values for SW070005D (soluble) and SW070005FB (soluble) are
estimated and undetected (UJ) because the post-digestion matrix spike %Recovery criteria were not met.
21) The non-detect Lead aqueous values for SW070005 (total) and SW070005D (soluble) are estimated and
undetected (UJ) because the post-digestion matrix spike %Recovery criteria were not met.
Comments: None
Note: Data Summary Tables are attached.
A
_ Cholen A. Thell
Reviewer Signature Date

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SITE NAME: Area 2 - 881 Hillside CLP WATER INORGANIC ANALYSIS:

Low Water

ANALYTICAL RESULTS (ug/L)

The second secon													
Sample Location													
Sample Number		SW070005	SWK	SW070005	SW070005D	П	SW070005D	SW070005FB	3 SW070005FB	35FB			
Sample Date		8/14/89	8/14/89	68/	8/14/89	~	8/14/89	8/14/89	8/14/89				
Remarks		Total	Soluble	t) Die	Total	,	Soluble	Total	Soluble				
Inorganic Analyte	덕 칠		g	g		8	g	8	σ	8			
Aluminum Al	T	411	V 71.4 U		357	$\overline{}$	70.6 V	71.4 U	/ 42.3	>			
Antimony Sb	8	12.7 U	R 12.7 U	UR	12.7 U	н	12.7 U R	12.7 U R	12.7 U	В			
Arsenic As	₽	1.2 U	R 1.2U		1.2 U	ч	1.2 U V	1.2 U R	1.2 U	^			
Barlum Ba	500	104	V 85.0	>	95.0	>	96.5 V	4.9 U	/ 4.9 ∪	۸			
Beryllum Be	9	0.8 U	V 0.8 U	۸ ر	0.6 U	^	V U 8.0	0.6 U	0.6 U	۸			
Cadmium Cd	20	2.1 UJ	A 2.1 UJ	A U	2.1 UJ	٧,	2.1 UJ A	2.1 UJ A	1 2.1 W	٧			
Calcium Ca	0009	64700	V 59300	۰ ۵	65700	>	58200 V	36.0 ∪ V	0.9€ /	۸		-	
Cestum Cs	1000	1000 U	V 1000 U	۸ ۵۰	1000 U	^	1000 U V	1000 U	1000 U	^			
Chromlum Cr	10	3.9 ∪	V 3.9 U	۸ (	14.4 UJ	A	3.9 U R	3.9 U R	6.9 UJ	٧			
Cobatt Co	909	4.9 UJ	A 4.9 UJ	A LL	4.9 UJ	٧	4.9 UJ A	4.9 UJ A	4.9 UJ	٧			
Copper Cu	52	7.6 UJ	A 7.3 W	A LL	6.1 UJ	A	7.0 UJ A	5.8 U V	, 5.8 U	۸			
Iron Fe	8	673	V 22.2 UJ	U. A	සෙ	۸	28.1 UJ A	86.5 UJ A	74.2 UJ	٧			
Lead Pb	9	1,1 UJ	A 1.1 U	۸ (	1.1 U	٧	1.1 UJ A	1.1 U V	1.1 U	^			
Lithtum LI	100	rn 001	A 100 UJ	W A	100 UJ	٧	100 UJ A	100 UJ A	100 UJ	A			
Magnestum Mg	2009	13200	V 13300	>	13000	>	13200 V	53.9 U V	7 53.9 U	>	~		
Manganese Mn	15	67.0	V 82.6	>	78.2	>	78.5 V	1.7 U V	1.7 U	>			
Mercury Hg	0.2	0.20 U	V 0.20 U	>	0.20 ∪	>	0.20 U V	0.20 U	0.20 U	>			
Molybdenum Mo	80	100 UU	100 U	3	100 UJ	4	100 UJ A	100 UJ A	100 CE	4		_	
Nickel Ni	64	8.4 U	V 84U	>	8.4 U	>	8.4 U V	8.4 U V	8.4 U	>			
Potasslum K	2009	1920 UJ	A 1350 UJ	Α Ω.	2270 UJ	¥.	1890 UJ A	758.7 U	758.7 U	>			
Selenium Se	9	0.80 U	R 0.80 U	n B	0.90 UJ	4	0.80 UJ A	0.80 U	0.80 UJ	<b>V</b>			
Silver Ag	10	3.4 UJ	A 3.4 UJ	٧	3,4 UJ	4	3.4 UJ A	6.5 UJ A	3.4 UJ	¥			
Sodlum Na	2000	24400	۷ 22500	> &	24600	>	22400 V	38.5 UJ A	382 UJ	٧			
Strontlum Sr	82	1000 UJ	A 100	1000 UJ A	1000 UJ	¥	1000 UJ A	1000 UJ A	1000 UJ	٧			
Thailium T	10	2.8 U	V 2.8 U	>	2.8 U	>	2.8 UJ A	2.8 U V	7 2.8 U	>			
Tin	500	100 UJ	A 100 UJ	A A	100 LU	<u> </u>	100 UJ A	100 U.	A 100 UJ	٧			
Vanadlum V	8	6.0 U	V 6.0 U	>	6.0 ∪	>	6.0 U V	6.0 U	V 6.0 U	>			
Zinc Zn	8	81.3 J	A 6.1 UJ	A U	29.8 J	<b>V</b>	4.2 UJ A	11.3 W	A 6.6 UJ	<b>V</b>			
- Indian	•		2		-	>	9	1001	QX	-			

DO Data Qualifier V Valid A Acceptable with qualifications R Rejected

860361/9903

E Estimated by the Laboratory
U indicates the compound was not detected above the Instrument Quantitation Limit
J Quantitation is approximate due to ilmitations identified during the quality control review
DL Detection Limit in Micrograms per Liter (ug/L)
NR Not reported